

🔍 Title: **JP04295072A2: EXTRUDED BUILDING MATERIAL MADE OF LIGHTWEIGHT CEMENT**

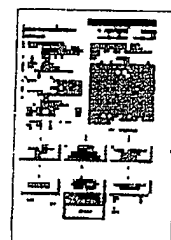
🔍 Derwent Title: Lightweight cement prod. for house walls - comprising granular vermiculite powder contg. hydraulic binder and aggregate  
[Derwent Record]

🔍 Country: JP Japan

🔍 Kind: A (See also: [JP03024236B2](#) )

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🔍 Published / 1992-10-20 / 1991-03-25  
Filed:

🔍 Application JP1991000060483  
Number:

🔍 IPC Code: **C04B 38/08; E04F 13/14;**

🔍 Priority 1991-03-25 JP1991000060483  
Number:

🔍 Abstract: **PURPOSE:** To obtain the extruded lightweight cement building material having excellent surface smoothness by incorporating a specific ratio of vermiculite adjusted to a specific grain size distribution as lightweight aggregate into this material.

**CONSTITUTION:** The extruded building material made of the lightweight cement is obtd. by adding proper volume of water to a material, which is obtd. by compounding an admixture with ceramic powder consisting of a hydraulic binder and aggregate, then subjecting this mixture to kneading, extrusion molding and curing. The ceramic powder contg. 5 to 30% vermiculite adjusted to the grain size distribution of  $\geq 20\text{wt.}\%$  of  $\leq 50\mu$  grain size and  $\leq 10\%$  of  $\geq 300\mu$  grain size is used at this time. The surface smoothness of the vermiculite to be used is insufficient in the case of  $\geq 10\%$  of  $300\mu$  grain size. The effect of improving extrudability is low and the surface smoothness is not improved in the case of  $< 20\%$  of  $\leq 50\mu$  grain size. The effect of improving the smoothness is low if the vermiculite is  $\leq 5\text{ pts.wt.}$  in 100 pts. total ceramic powder. The degradation in the strength arising from the decrease of the sp. gr. and the drastic degradation in freezing hazard resistance important as a building material are resulted if the content thereof exceeds 30 pts.

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References:

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6572697	2003-06-03	Gleeson; James A.	James Hardie Research Pty Limited	Fiber cement building materials with low density additives

Other Abstract  
Info:

CHEMABS 118(14)130759V CAN118(14)130759V



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